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Quality Engineering Test Report

SERIES: DKE10A 10W DC-DC DUAL OUTPUT CONVERTER

SAMPLE:	A:	DKE10A-05	V1: +5V / 1000mA
			V2: -5V / 1000mA
	B:	DKE10A-12	V1:+12V / 420mA
			V2:-12V / 420mA
	C:	DKE10A-15	V1:+15V / 333mA
			V2:-15V / 333mA

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT
1	DC INPUT VOLTAGE RANGE	I/P:TESTING SPEC: 9~18VDC O/P:FULL LOAD	A:7.3~18VDC	P
2	LINE REGULATION	I/P: 9~18VDC SPEC: $\pm 0.3\%$ O/P:FULL LOAD	A: V1: -0% ~ +0% V2: -0.2% ~ +0% B: V1: -0% ~ +0% V2: -0% ~ +0% C: V1: -0.2% ~ +0% V2: -0.1% ~ +0.1%	P
3	LOAD REGULATION	I/P:12VDC SPEC: $\pm 2\%$ O/P:MIN. TO FULL LOAD	A: V1: -0% ~ +0% V2: -0.2% ~ +0% B: V1: -0.1% ~ +0.1% V2: -0.1% ~ +0.1% C: V1: -0.1% ~ +0% V2: -0.1% ~ +0%	P
4	OUTPUT VOLTAGE TOLERANCE	I/P: 9~18VDC SPEC: NONE O/P:MIN. TO FULL LOAD	A: V1: -2.8% ~ +3.0% V2: -3.0% ~ +2.8% B: V1: -1.6% ~ +1.7% V2: -1.8% ~ +1.5% C: V1: -0.2% ~ +0.1% V2: -0.1% ~ +0.1%	P
5	RIPPLE&NOISE	I/P:12VDC SPEC: A: V1:50mV O/P:FULL LOAD V2:50mV B: V1:60mV V2:60mV C: V1:60mV V2:60mV	A: V1: 18mV V2: 20mV B: V1: 20mV V2: 20mV C: V1: 27mV V2: 25mV	P
6	DC INPUT CURRENT	I/P:12VDC SPEC: NONE O/P:FULL LOAD	A:1.05A	P
7	O/P VOLTAGE ACCURACY	I/P:12VDC SPEC: $\pm 2\%$ O/P:MIN. LOAD	A: V1: +1.4% V2: +1.4% B: V1: +0.9% V2: +0.7% C: V1: +0.1% V2: +0.2%	P
8	SET UP TIME	I/P:12VDC SPEC: NONE O/P:FULL LOAD	A:328mS	P
9	EFFICIENCY	I/P:12VDC SPEC: 76% O/P:FULL LOAD	A: 78.9% B: 83.8% C: 83.5%	P

NEXT

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT								
10	OVER LOAD PROTECTION	I/P: 12VDC O/P:TESTING SPEC: NONE	A:158% B:174% C:164%	P								
11	INSULATION RESISTANCE	SPEC:I/P–O/P 500VDC/100M Ohms MIN.	I/P–O/P >100M Ohms	P								
12	DIELECTRIC / WITHSTAND VOLTAGE	SPEC: I/P– O/P: 500VDC/ 1 min (10mA CUT-OFF)	I/P–O/P:<0.5mA	P								
13	BURN-IN TEST	I/P: 12VDC TA:25°C O/P:FULL LOAD BURN-IN DURATION : 4 hrs	A:NO BREAK B:NO BREAK C:NO BREAK	P								
14	TEMPERATURE RISE TEST T rise OF PARTS	A:I/P :12VDC O/P :FULL LOAD AFTER 4 hrs BURN-IN TA:25°C <table><tr><td>POSITION</td><td>SAMPLE</td><td>TEMP</td><td>T rise</td></tr><tr><td>CASE</td><td>DKE10A-05</td><td>40.9°C</td><td>15.9°C</td></tr></table>		POSITION	SAMPLE	TEMP	T rise	CASE	DKE10A-05	40.9°C	15.9°C	P
POSITION	SAMPLE	TEMP	T rise									
CASE	DKE10A-05	40.9°C	15.9°C									
15	CONSTRUCTION INSPECTION (FOR QC INSPECTION REFERENCE ONLY)	1. PACKING : 以塑膠泡墊保護PIN腳,再以紙盒包裝 2. MARKING : MODEL LABEL 3. MECHANICAL : SIX-SIDED SHIELD METAL CASE. PIN :1.0 Øx7mm										
DATE		SAMPLE		TEST RESULT	TEST	APPROVAL						
1999.02.12		DKE10A-05 DKE10A-12 DKE10A-15		PASS	T.K.CHENG	MAX LIN						

[PREVIOUS](#)